



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**Pella Corporation**  
**102 Main Street**  
**Pella, IA 50219**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION:** Series "HIG Casement" Aluminum Clad Wood Casement Window – L.M.I

**APPROVAL DOCUMENT:** Drawing No. 1518, titled "HIG Aluminum Clad Impact Casement Window", sheets 1 through 5 of 5, dated 03/23/07, with revision B1 dated 10/21/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING:** Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 09-1027.05 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 11-1026.11  
Expiration Date: November 15, 2012  
Approval Date: January 12, 2012  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **1518**, titled "HIG Aluminum Clad Impact Casement Window", sheets 1 through 5 of 5, dated 03/23/07, with revision B1 dated 10/21/11, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
along with marked-up drawings and installation diagram of series HIG aluminum clad wood casement window, prepared by Architectural Testing, Inc., Test Report No. **ATI-93260.01-201-18**, dated 09/15/09, signed and sealed by Joseph A. Reed, P.E.  
*(Submitted under previous NOA# 09-1027.05)*
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of three series/model HIG IG aluminum clad wood casement/fixed windows, prepared by Architectural Testing, Inc., Test Report No. **ATI-93328.01-201-18**, dated 08/24/09, with revision 1 dated 10/12/09, signed and sealed by Joseph A. Reed, P.E.  
*(Submitted under previous NOA# 09-1027.05)*
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94  
along with marked-up drawings and installation diagram of series/model HIG IG/monolithic aluminum clad wood casement window mulled jamb to jamb to an aluminum clad wood fixed window, prepared by Architectural Testing, Inc., Test Report No. **ATI-71262.08-201-18**, dated 05/27/07, signed and sealed by Joseph A. Reed, P.E.  
*(Submitted under previous NOA# 07-0619.12)*

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-1026.11

Expiration Date: November 15, 2012  
Approval Date: January 12, 2012

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS:**

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and 2010, dated 09/08/09 and updated on 10/21/11, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

**E. MATERIAL CERTIFICATIONS**

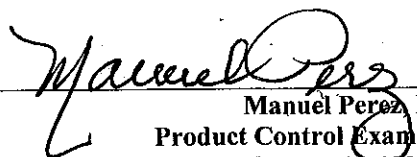
1. Notice of Acceptance No. **11-0413.04** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.
2. Notice of Acceptance No. **11-0624.01** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2007 and FBC-2010, dated 10/21/11, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated 10/19/11, signed and sealed by Warren W. Schaefer, P.E.
3. Laboratory compliance letters for Test Report No. **ATI-93260.01-201-18**, **ATI-93328.01-201-18** and **ATI-71262.08-201-18**, issued by Architectural Testing, Inc., dated September 15, 2009 and August 25, 2009, signed and sealed by Joseph A. Reed, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **09-1027.05**, issued to Pella Corporation for their Series "H.I.G. Vent" Aluminum Clad Wood Casement Window – L.M.I., approved on 01/06/10 and expiring on 11/15/12.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-1026.11  
Expiration Date: November 15, 2012  
Approval Date: January 12, 2012

### GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

### CORNER CONSTRUCTION

**FRAME CORNERS:** THE SIDE WOOD MEMBERS ARE BUTTED TO THE HEAD & SILL MEMBERS & SECURED WITH THREE(3) 14 GAGE 7/16" X 2 1/2" STAPLES. CLADDING IS MITERED TOGETHER, JOINED WITH A PLASTIC CORNER KEY PART NO. 77U00000 & SEALED WITH BUTYL DEVAN 578.12 OR BOSTIK 900 POLYURETHANE SEALANT. EACH CLADDING MEMBER IS SECURED TO THE KEY WITH 1 NO. 10 X 17/32" FH SCREW (2 TOTAL PER CORNER)

#### SASH CORNERS:

**OPTION 1:** MORTISE & TENON CONSTRUCTION. A 1/8" BEAD OF BOSTIK CHEM-CALK URETHANE IS PLACED AT THE TENNON BOTTOM SURFACE. WOOD GLUE IS PLACED AT THE TENNON SIDES. THE JOINT IS THEN ASSEMBLED & SECURED WITH ONE 15 GA. X 1 1/2" FINISH NAIL.

**OPTION 2:** SCREWED CONSTRUCTION. MEMBER ENDS ARE PROFILED AND PARTIALLY TENONED, BUTTED & ADHERED TOGETHER WITH BOSTIK 70-05/70-05A AND THEN SECURED WITH NO. 12 X 4" FH WOOD SCREWS (1 SCREW WITH SASH HEIGHTS LESS THAN 3.5"; 2 SCREWS WITH SASH HEIGHTS 3.5" TO 5 3/8"). THE CLADDING IS TABBED WITH THE TABS MEETING IN A BED OF BOSTIK IN A GROOVE ON THE EXTERIOR SASH FACE RESULTING FROM THE PARTIALLY TENNONED RAIL END.

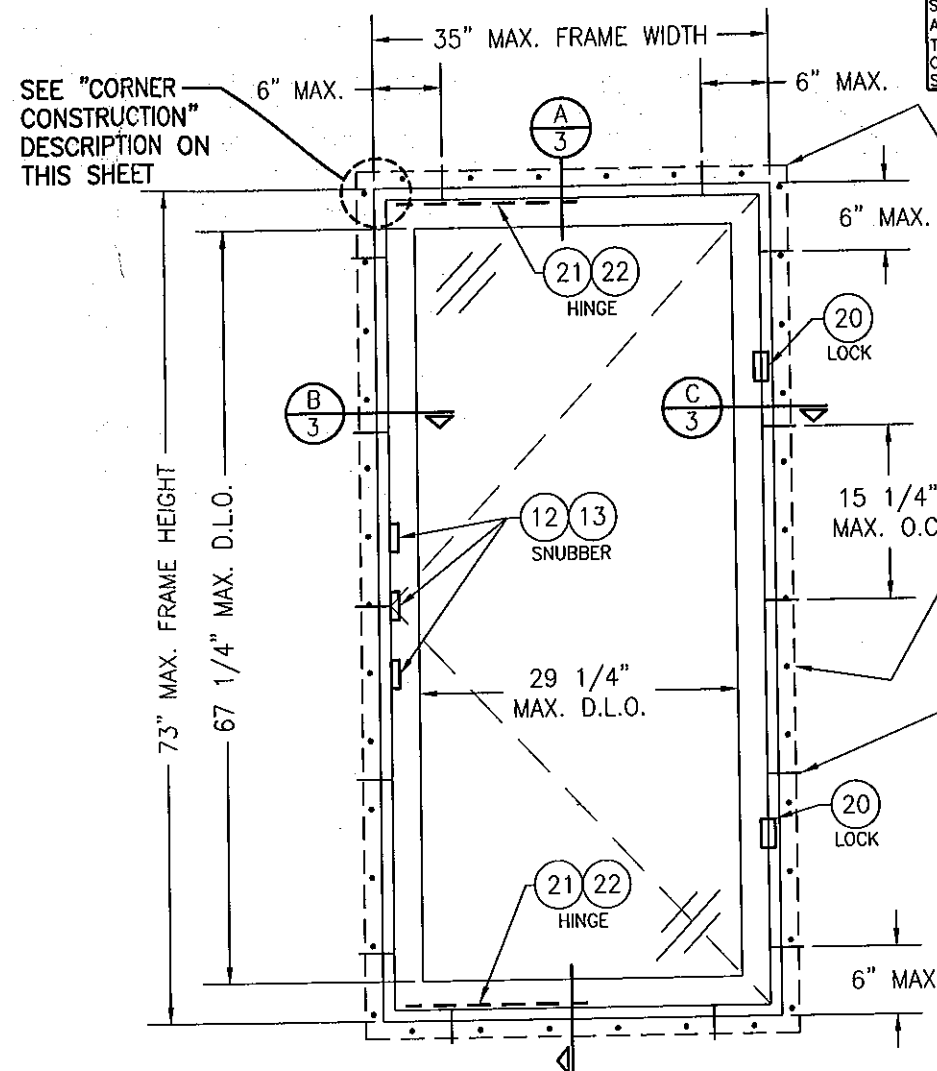
SASH CORNER OPTION 2  
WINDOWS ARE LIMITED  
TO MAXIMUM +/-60  
PSF DESIGN PRESSURE  
(SEE PRESSURE NOTE  
ON THIS SHEET.)

### FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SHEAR SCREWS			
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP			
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
NAILING FIN			
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	2" X 11 GA. ROOFING NAIL	1 7/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

SEE "CORNER  
CONSTRUCTION"  
DESCRIPTION ON  
THIS SHEET



EXTERIOR ELEVATION  
SINGLE CASEMENT WINDOW  
SCALE: 3/4" = 1'-0"

### ALLOWABLE WINDOW SIZE VS. PRESSURE TABLE (SINGLE WINDOWS)

GLASS OPTION	MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM FRAME WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
			POSITIVE	NEGATIVE
A	73	35	75	75
B	73	35	75	75
	71	32	75	85
C	65	35	75	85
	73	35	75	75
D	73	35	75	75
	71	32	75	85
E	65	35	75	85
	73	35	(*) 64.8	(*) 64.8
	65	35	(*) 69.6	(*) 69.6

(\*) WHEN THE 1/8" ANNEALED EXTERIOR PANE OF GLASS IN GLASS TYPE "E" IS SUBSTITUTED WITH 1/8" TEMPERED, THE ALLOWABLE PRESSURE MAY BE INCREASED TO +/-75 PSF.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

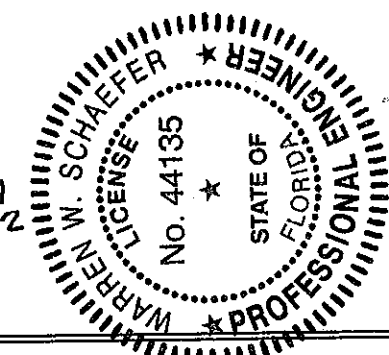
NAILING FIN IS REQUIRED WITH CLIP MOUNT CONDITION BUT IS OPTIONAL & MAY BE REMOVED FOR A FRAME SHEAR SCREW MOUNT CONDITION. (NAIL FIN SHALL NOT ACT AS A SUBSTITUTE FOR THE FRAME SHEAR SCREWS SPECIFIED)

NAIL FIN FASTENERS WHERE SHOWN, WITHIN 5" OF CORNERS & MAX. 7" O.C. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR FASTENER REQUIREMENTS.

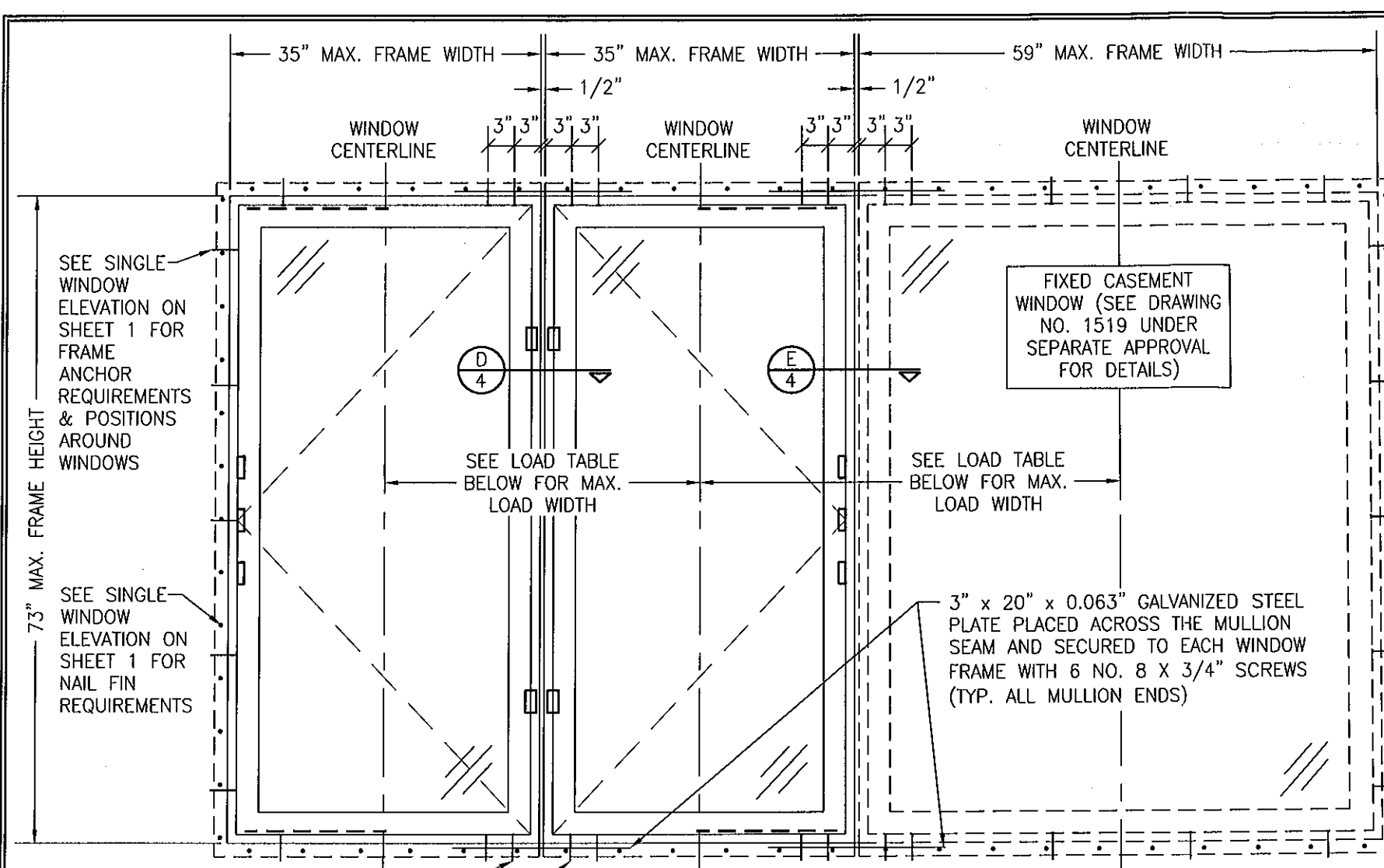
FRAME SHEAR SCREW OR INSTALLATION CLIP WHERE SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR SCREW REQUIREMENTS.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-1026.11  
Expiration Date Nov 15, 2012

By *Warren W. Schaefer*  
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 03/23/07	
DATE	BY	REVISION	DESCRIPTION
09/30/09	WRM	A1	UPDATE PER NEW TESTING AND CURRENT STANDARDS
10/21/11	WRM	B1	UPDATE TO CURRENT STANDARDS
DRAWING TITLE: HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW			
MANUFACTURER: PELLA CORPORATION 102 MAIN STREET PELLA, IA 50219 641-621-1000			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424			
CERTIFICATION: <i>Warren W. Schaefer</i> P.E. No. 44135 OCT 21 2011			
DRAWING NO. 1518		REV. B	
SHEET NO. 1		OF 5	



**EXTERIOR ELEVATION  
MULTIPLE CASEMENT/FIXED WINDOW**  
SCALE: 3/4" = 1'-0"

ADDITIONAL FRAME SCREWS OR INSTALLATION CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR FRAME & CLIP SCREW REQUIREMENTS.

ALLOWABLE DESIGN PRESSURE TABLE (SIDE BY SIDE WINDOWS)			
MAXIMUM FRAME HEIGHT (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		"XX"	"XO"
73	47.5	-	+75/-75
73	35.5	+75/-75	+75/-75
71	43.5	-	+75/-84.2
71	42.5	-	+75/-85
71	32.5	+75/-85	+75/-84.2
71	31.5	+75/-85	+75/-85
65	47.5	-	+75/-84.2
65	46.5	+75/-85	+75/-85
65	35.5	+75/-85	+75/-84.2
65	34.5	+75/-85	+75/-85

**NOTES:**  
1. LOAD WIDTH IS THE DISTANCE BETWEEN WINDOW CENTERLINES.  
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURES SHOWN IN THIS TABLE & THOSE SPECIFIED FOR THE INDIVIDUAL WINDOW.  
3. "XX" = MULLION BETWEEN 2 OPERABLE WINDOWS.  
4. "XO" = MULLION BETWEEN AN OPERABLE AND FIXED WINDOW.

**MULTIPLE UNIT NOTES:**

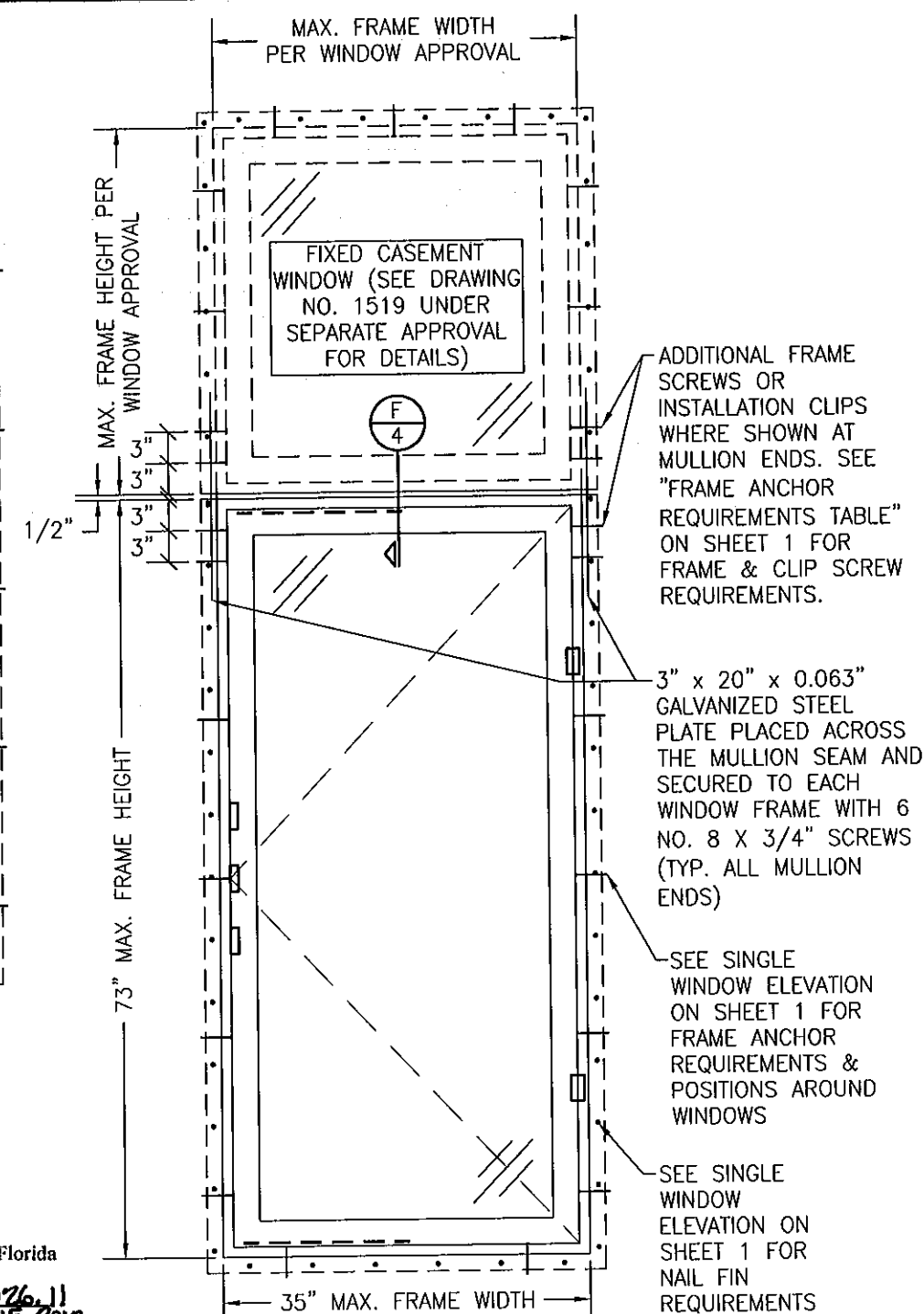
- FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
- THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 11-1076, 11  
Expiration Date Nov. 15, 2012

By *Manuel Perez*  
Miami Dade Product Control

**ALLOWABLE DESIGN PRESSURE  
(TRANSOM UNIT)**

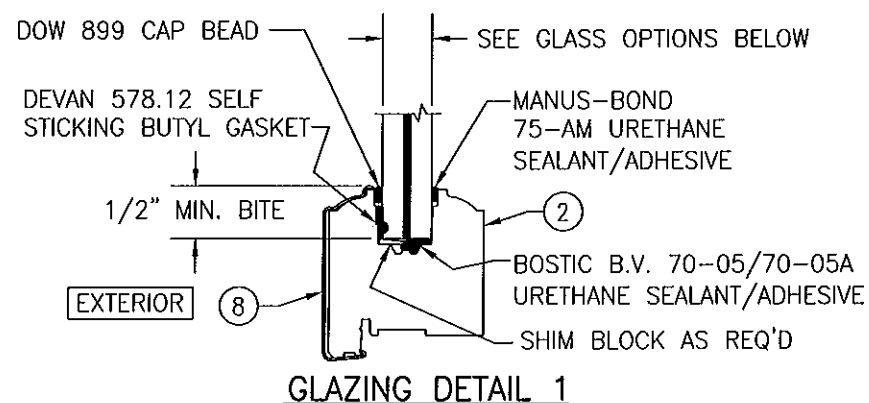
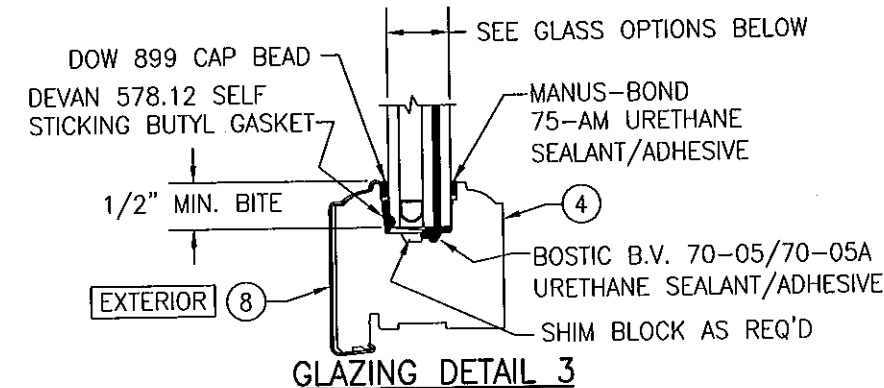
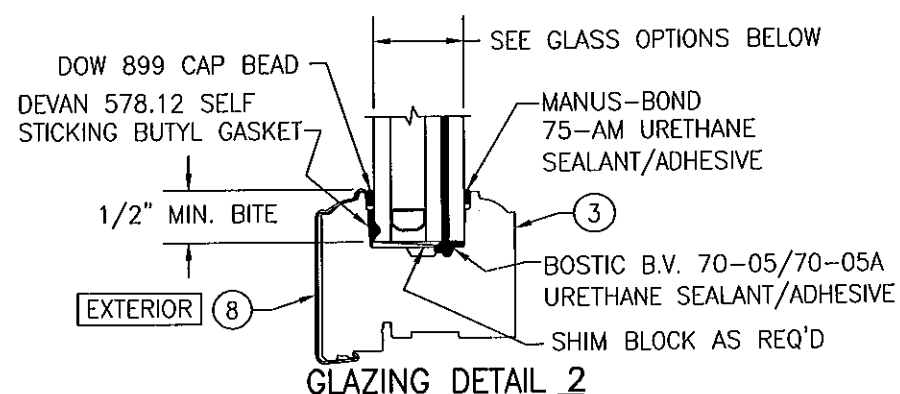
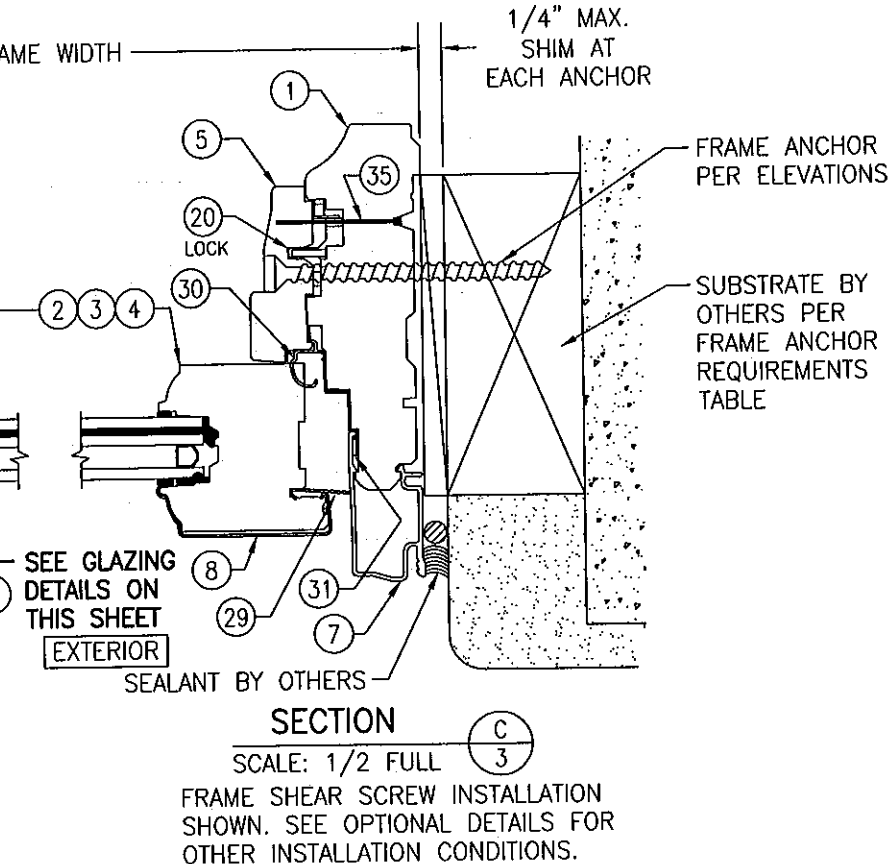
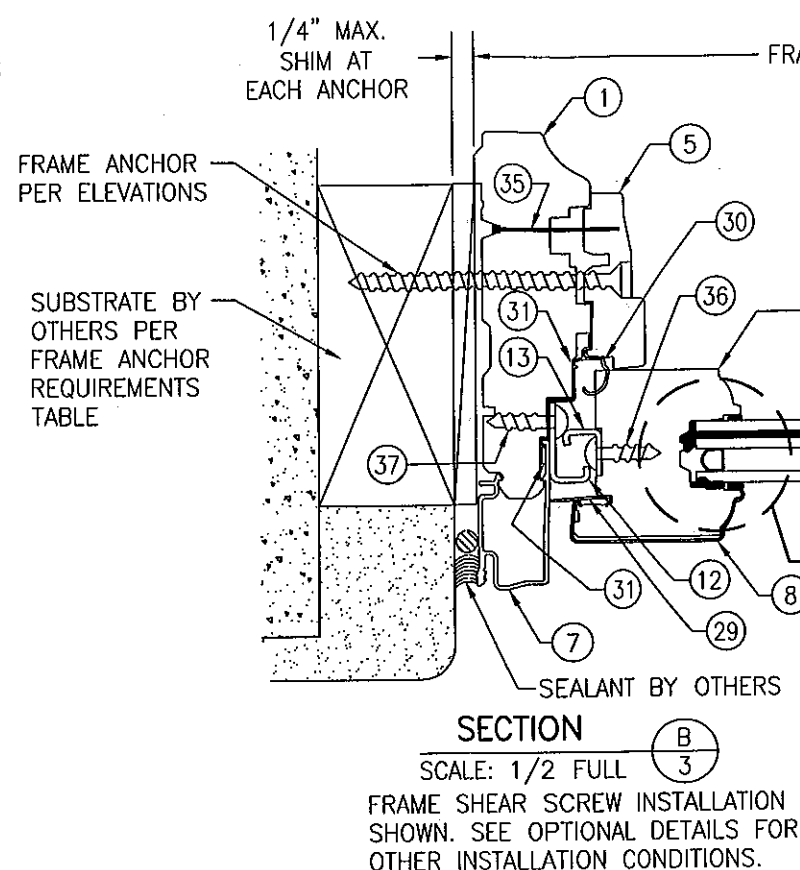
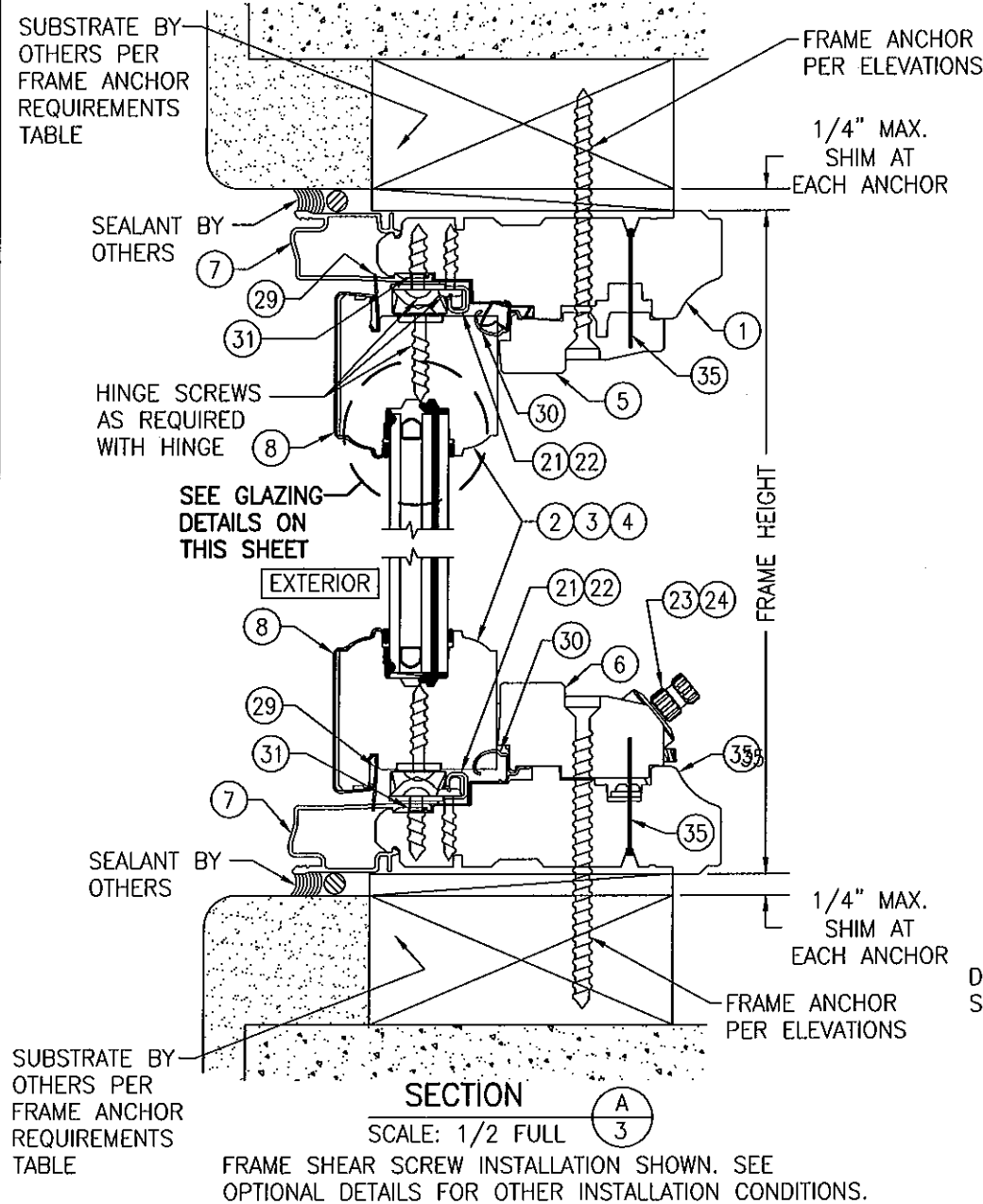
UNIT PRESSURE SHALL BE AS CONTROLLED BY THE INDIVIDUAL WINDOW ALLOWABLE PRESSURES. MULLION DOES NOT CONTROL THIS UNIT.



**EXTERIOR ELEVATION  
SINGLE CASEMENT WINDOW WITH TRANSOM**  
SCALE: 3/4" = 1'-0"



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 03/23/07	
NO.	REVISION	DESCRIPTION	BY
DRAWING TITLE: <b>HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW</b>			
CONSULTANTS: <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b>		MANUFACTURER: <b>PELLA CORPORATION</b> 102 MAIN STREET PELLA, IA 50219 641-621-1000	
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		<div> </div>	
<div> </div>		<div> </div>	
DRAWING NO.	REV.	SHEET NO.	
1518	B	2 OF 5	



**GLASS OPTIONS:**

**OPTION C:** 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT BUTACITE PVB/5/32" AN. INTERIOR)

**OPTION D:** 1" THICK LAMINATED I.G. GLASS (3/16" AN. EXTERIOR; 3/8" SPACER; 5/32" AN./0.09 DUPONT SG/5/32" AN. INTERIOR)

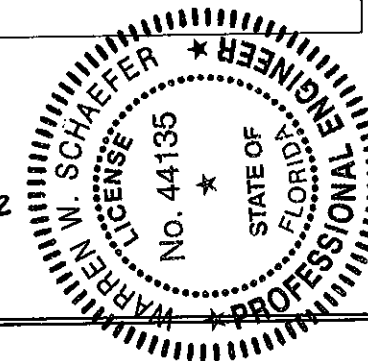
**1" I.G. GLASS NOTE:**  
THE EXTERIOR 3/16" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 3/16" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.

**GLASS OPTIONS:**

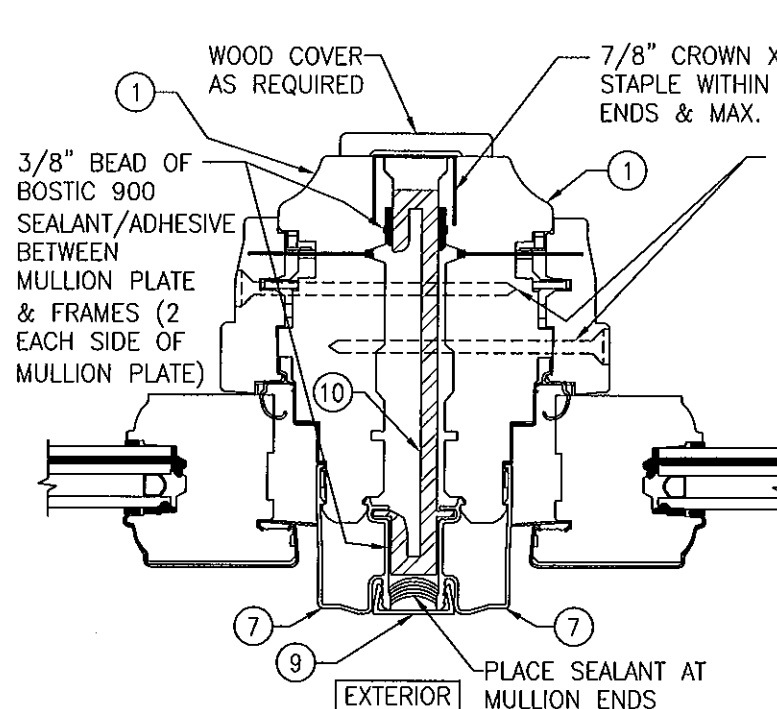
**OPTION E:** 11/16" THICK LAMINATED I.G. GLASS (1/8" AN. EXTERIOR; 1/4" SPACER; 7/64" AN./0.09 DUPONT BUTACITE PVB/7/64" AN. INTERIOR)

**11/16" I.G. GLASS NOTE:**  
THE EXTERIOR 1/8" ANNEALED PANE OF GLASS MAY BE SUBSTITUTED WITH 1/8" TEMPERED WHEN REQUIRED TO MEET SAFETY REQUIREMENTS.

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-1026.11  
Expiration Date Nov 15, 2012  
By *Warren W. Schaefer*  
Miami Dade Product Control

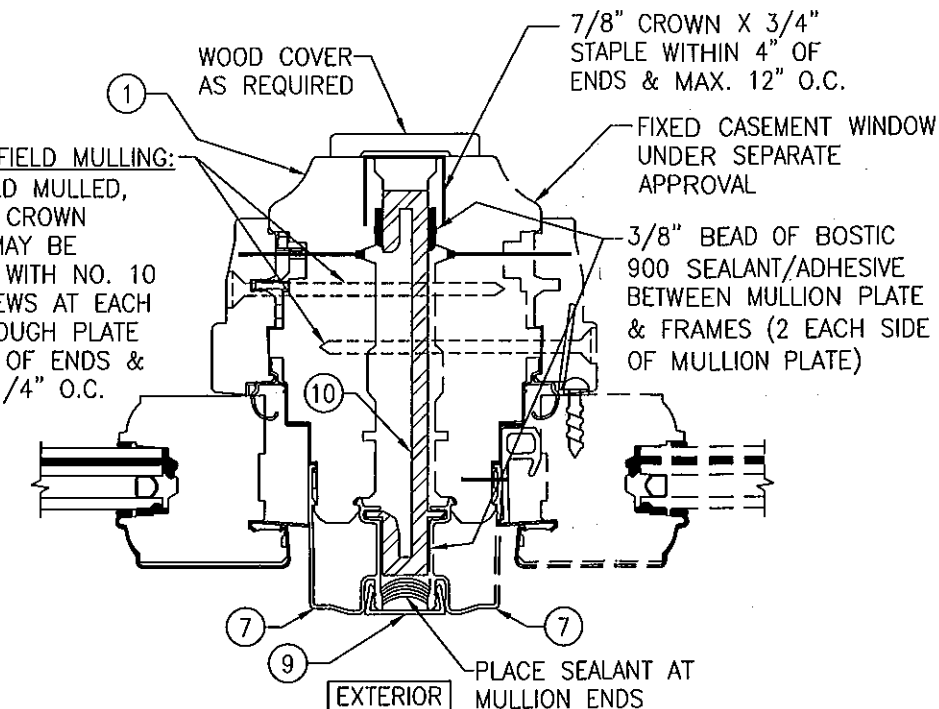


DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 03/23/07	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: HIGH ALUMINUM CLAD IMPACT CASEMENT WINDOW			
MANUFACTURER: PELLA CORPORATION			
102 MAIN STREET			
PELLA, IA 50219			
641-621-1000			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 150TH COURT NORTH			
PALM BEACH GARDENS, FL 33418			
PHONE: 561-744-3424			
CERTIFICATION: OCT 21 2011			
WARREN W. SCHAEFER, P.E.			
P.E. NO. 44135			
DRAWING NO.	REV.	SHEET NO.	
1518	B	3 OF 5	



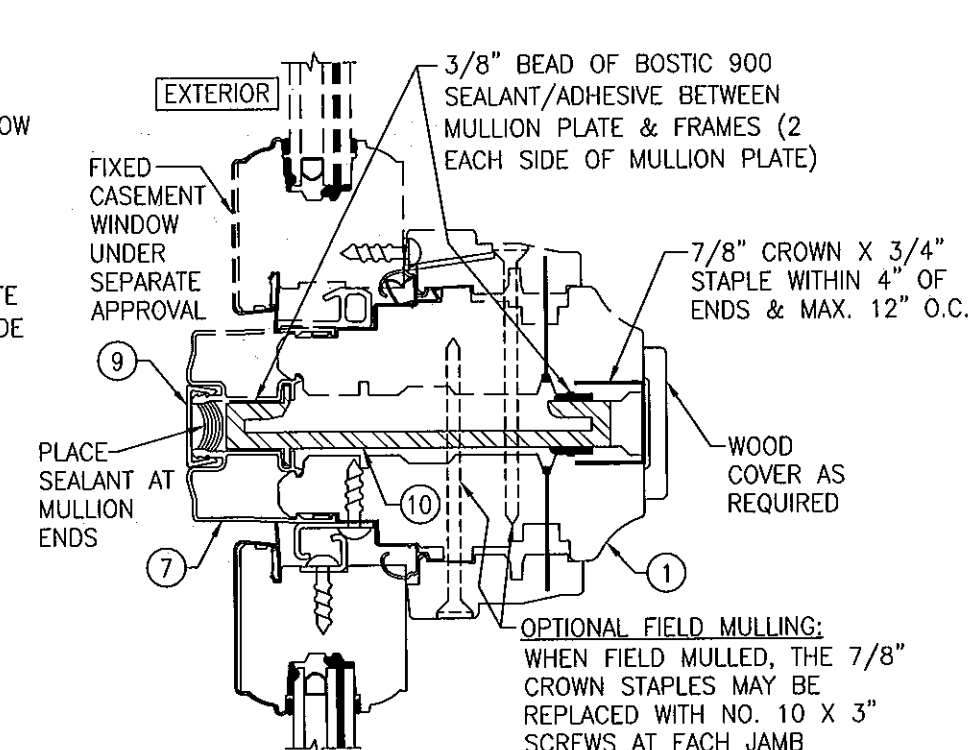
SECTION D  
SCALE: 1/2 FULL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS



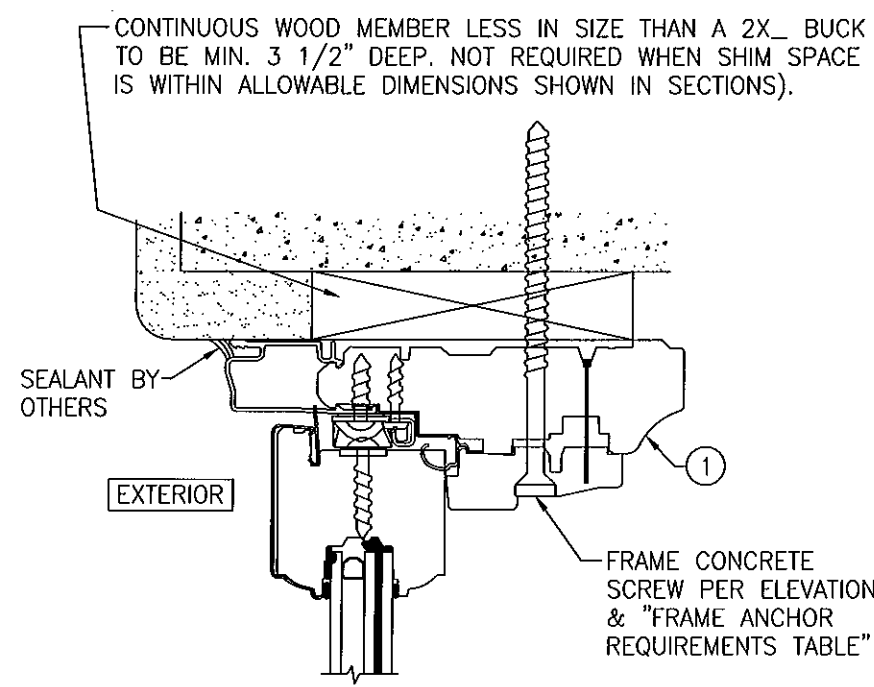
SECTION E  
SCALE: 1/2 FULL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS

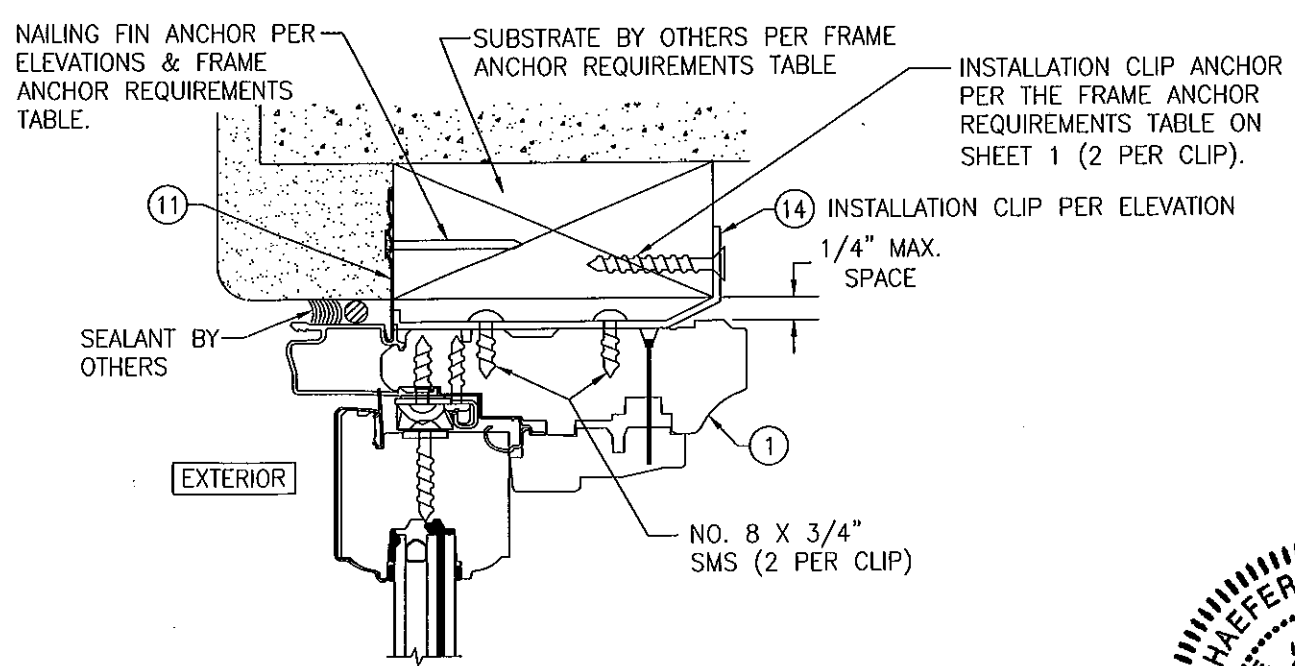


SECTION F  
SCALE: 1/2 FULL

FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS



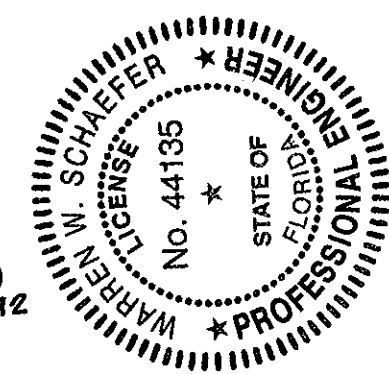
OPTIONAL DIRECT MOUNT DETAIL  
TO BLOCK OR CONCRETE WITH SPACER OR SHIM  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION CLIP/NAIL FIN DETAIL  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)  
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 11-1026.1)  
Expiration Date 10/15/2012

By *Warren W. Schaefer*  
Miami Dade Product Control



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 03/23/07	
DATE	BY	REVISION DESCRIPTION	NO.

DRAWING TITLE  
**HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW**

MANUFACTURER  
**PELLA CORPORATION**  
102 MAIN STREET  
PELLA, IA 50219  
641-621-1000

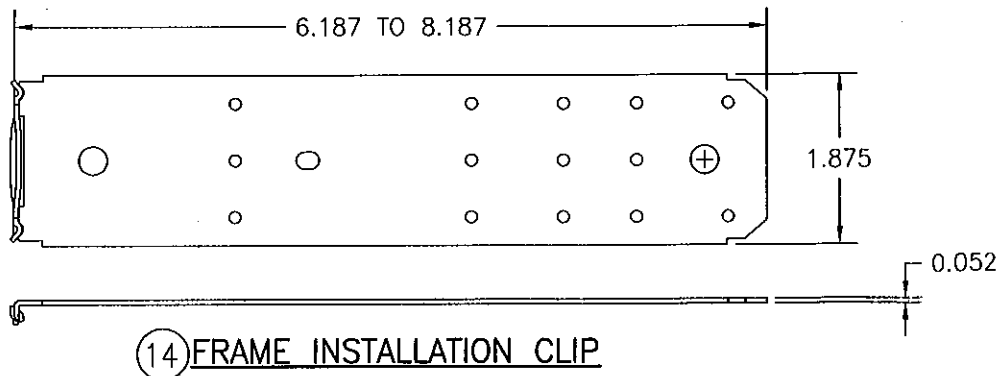
CONSULTANTS  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

CERTIFICATION  
*Warren W. Schaefer*  
OCT 21 2011  
WARREN W. SCHAEFER, P.E.  
NO. 44135

DRAWING NO.  
**1518**


REV.  
**B**

SHEET NO.  
**4 OF 5**



**NOTE:** WOOD USED IN TESTING WAS WESTERN PINE WITH A SPECIFIC GRAVITY OF  $G = 0.43$  AND A MODULUS OF ELASTICITY OF  $E = 1,200,000$  PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PELLA CORPORATION TO SELECT.

A circular professional engineer seal for Warren W. Schaefer. The outer ring contains the text "WARREN W. SCHAEFER" on the left and "PROFESSIONAL ENGINEER" on the right, separated by a star at the top. The inner circle contains the text "LICENSE" on the left, "No. 44135" in the center, and "STATE OF FLORIDA" on the right, also separated by a star at the bottom. The seal is surrounded by a decorative border of small dots.

DRAWING NO.		REV.	
1518		B	
SHEET NO.			
5		5	
OF			
<div style="display: flex; justify-content: space-between;"> <div> <p><b>CERTIFICATION</b></p> <p><b>OCT 21 2011</b></p> <p>WARREN W. SCHAEFER, P.E. P.E. NO. 44135</p> </div> <div> <p><b>DRAWING TITLE</b></p> <p><b>HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW</b></p> </div> </div>			
<p><b>CONSULTANTS</b></p> <p><b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)</b></p> <p>7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424</p>		<p><b>MANUFACTURER</b></p> <p><b>PELLA CORPORATION</b></p> <p>102 MAIN STREET PELLA, IA 50219 641-621-1000</p> 	
<p><b>DRAWING TITLE</b></p> <p><b>HIG ALUMINUM CLAD IMPACT CASEMENT WINDOW</b></p>		<p><b>NO.</b></p> <p><b>REVISION DESCRIPTION</b></p> <p><b>BY</b></p> <p><b>DATE</b></p>	
<p><b>DRAWN BY:</b> W.R.M.</p> <p><b>CHECKED BY:</b> W.W.S.</p> <p><b>PLOT:</b> 1=2</p> <p><b>DATE:</b> 03/23/07</p>			